



# Operating Instructions

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## Sorbent Sample Tube Cat. No. 226-120

### Description

Sorbent sample tube Cat. No. 226-120 is a three-section tube containing 300 and 150 mg of DNPH-coated silica gel, respectively (sample section and backup section to detect breakthrough), and a 1500 mg section of potassium iodide that acts as an ozone scrubber.

Store at  $\leq 39.2$  F (4 C). Limited shelf-life; check expiration date on packaging.

### Sampling

The 226-120 sorbent sample tube can be used at flow rates up to 1 L/min. For additional sampling parameters, consult the method used. Sampling parameters may vary with ambient concentrations of the analyte.

This sorbent tube is **not recommended for the collection of acrolein** due to numerous problems reported with the instability of the acrolein-DNPH derivative during collection and storage.

### Sampling Notes

**Ozone:** Ozone interference is associated with DNPH-coated adsorbent tubes. Sorbent sample tube Cat. No. 226-120 contains a built-in ozone scrubber that may be used in atmospheres where ozone is present to help eliminate this interference.

**Acetonitrile:** The sorbent inside these tubes contains a small amount of residual acetonitrile used in processing the sorbent. Acetonitrile may off-gas during sampling; therefore, exposure monitoring for acetonitrile should **not** be performed concurrently when these sorbent tubes are in use.

### Background

See Certificates of Analysis at [www.skcinc.com/knowledgecenter](http://www.skcinc.com/knowledgecenter): search on Silica Gel, DNPH Treated, High Purity and select the Lot Number that matches the Lot Number printed on the tube.

### Analysis of Formaldehyde Samples

1. Place each sorbent section into separate glass vials. Discard the ozone scrubber section according to state and federal guidelines.
2. Add 3 ml of acetonitrile to each vial. Cap each vial.
3. Shake each vial periodically over a 30-minute period.
4. Analyze sample extracts by HPLC with UV detection at 365 nm.

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